

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A device for coating a web material in a single step plasma enhanced chemical vapor deposition process, the device comprising:
a vacuum chamber (1) equipped for maintaining a constant reduced pressure therein and,
arranged within the vacuum chamber (1) are,
a rotating drum for supporting and continuously transporting a web material lying against a circumferential surface of the drum, the drum being one of electrically grounded, electrically floating, and negatively biased,
more than two independent, substantially identical, magnetron electrodes (6) comprising:
rectangular magnetron faces with a length and a width,
a center pole and a peripheral pole, the two poles having opposite polarities and the peripheral pole extending around the center pole, and
each magnetron electrode (6) being powered with an alternating voltage by its own power supply unit (7), and
a plurality of gas supply lines,

wherein the magnetron electrodes are arranged with the magnetron faces facing the circumferential surface of the drum and at a same distance therefrom, the lengths of the magnetron faces extending parallel to a drum axis and the widths of the magnetron faces extending substantially tangential to the circumferential surface, and

wherein the gas supply lines extend between neighboring magnetron faces ~~electrodes and comprise rows of gas outlets arranged for gas injection~~ substantially perpendicular to the circumferential drum surface, wherein the magnetron faces and the gas supply lines are arranged side by side to form, together with a part of the circumferential surface of the rotating drum, one baffle-free combined process space and wherein the gas supply lines are connected to a source of only one process gas mixture ~~or within the magnetron faces and substantially parallel to the drum axis.~~

2. – 6. (Cancelled)

7. (Previously Presented) The device according to claim 1, wherein the magnetron electrode (6) constitutes a twin magnetron.

8. (Currently Amended) The device according to claim 1, ~~wherein further comprising means for removing in an axial direction the gas from said plurality of gas supply lines~~ is supplied to the space (10) between magnetron faces and the rotating drum is allowed to be removed in an axial direction and/or between adjacent magnetron faces.

9. (Previously Presented) The device according to claim 1, wherein the magnetron faces comprise electrode pieces (34) of a non magnetic material extending over the magnetic poles constituting the magnetron face.

10. (Previously Presented) The device according to claim 9, wherein the electrode pieces (34) of the magnetron faces comprise channels (35) for receiving a cooling medium.

11. (Previously Presented) The device according to claim 1, wherein the magnetron electrodes (6) constitute magnetrons of an unbalanced type.

12. (Previously Presented) The device according to claim 11, wherein the magnetron faces comprise permanent magnetic central and peripheral poles (30 and 31), the central pole (30) having a magnetic strength that is about half of a magnetic strength of the peripheral pole (31).